



**PATENT**  
069092.0128

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

**In re Application of:  
Bhashyam Ramesh**

Serial No.: 10/038,783

**Filing Date: December 31, 2001**

# Title: "Optimizing an Exclusion Join Operation Using A Bitmap Index Structure"

## Group Art Unit: 2122

Examiner:

NCR Docket No.: 10239

Commissioner for Patents  
Box Missing Parts  
Washington, D.C. 20231



**CERTIFICATE OF MAILING BY EXPRESS MAIL**

I hereby certify that this correspondence is being deposited with the United States Postal Service as Express Mail in an envelope addressed to: Assistant Commissioner for Patents, Box Missing Parts, Washington, D.C. 20231 on March 7, 2002.

Debra Spreuer

Signature

Express Mail Label: EV067266257US

**RESPONSE TO NOTICE TO FILE MISSING PARTS OF  
NONPROVISIONAL APPLICATION MAILED FEBRUARY 5, 2002**

Sir:

This replies to the Notice to File Missing Parts of Nonprovisional Application filed under 37 CFR 1.53(b) and mailed February 5, 2002 in connection with the above-identified Application.

Enclosed are the following items:

A signed declaration of inventor Bhashyam Ramesh

Copy of the Notice to File Missing Parts of Nonprovisional Application;

- Eight (8) substitute formal drawings of the application, pursuant to 37 C.F.R. 1.84(g), with identifying labels on back of each page;
- Request for Corrected Filing Receipt; and
- Postcard for acknowledgment of receipt of documents.

Applicant respectfully states that the attached eight (8) sheets of substitute formal drawings contain the same matter originally filed, and submit that **no new matter has been added** to this patent application. Applicant further states that each of the attached eight (8) sheets of substitute formal drawings are now in compliance with the margin requirements, specifically, top and left margins of at least 2.5 cm (1 inch); right margin of at least 1.5 cm (5/8 inch); and bottom margin of at least 1.0 cm (3/8 inch). Applicant further requests that the Examiner kindly substitute the enclosed eight (8) sheets of substitute formal drawings as replacements for the eight (8) sheets of formal drawings originally submitted with the patent application.

This response is being filed within the two-month shortened statutory response time and is therefore considered timely filed. Applicant is aware that a fee of \$130.00 is required with this filing. The Commissioner is hereby authorized to charge this fee due in association with this filing to the account of NCR Corporation, Deposit Account No. 50-1673.

Respectfully submitted,



Howard L. Speight  
Reg. No. 37,733

Baker Botts L.L.P.  
One Shell Plaza  
910 Louisiana  
Houston, TX 77002-4995  
(713) 229-2057  
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March 7, 2002

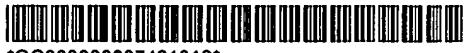


## UNITED STATES PATENT AND TRADEMARK OFFICE

COMMISSIONER FOR PATENTS  
 UNITED STATES PATENT AND TRADEMARK OFFICE  
 WASHINGTON, D.C. 20231  
[www.uspto.gov](http://www.uspto.gov)

APPLICATION NUMBER	FILING/RECEIPT DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NUMBER
10/038,783	12/31/2001	Ramesh Bhashyam	10239

John D. Cowart  
 Teradata Law IP, WHQ-4W  
 NCR Corporation  
 1700 S. Patterson Blvd.  
 Dayton, OH 45479-0001

**RECEIVED****FEB 13 2002****LAW DEPARTMENT****FORMALITIES LETTER**

\*OC00000007421816\*

Date Mailed: 02/05/2002

**NOTICE TO FILE MISSING PARTS OF NONPROVISIONAL APPLICATION****FILED UNDER 37 CFR 1.53(b)*****Filing Date Granted***

An application number and filing date have been accorded to this application. The item(s) indicated below, however, are missing. Applicant is given **TWO MONTHS** from the date of this Notice within which to file all required items and pay any fees required below to avoid abandonment. Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a).

- The oath or declaration is unsigned.
- To avoid abandonment, a late filing fee or oath or declaration surcharge as set forth in 37 CFR 1.16(l) of \$130 for a non-small entity, must be submitted with the missing items identified in this letter.
- **The balance due by applicant is \$ 130.**

The application is informal since it does not comply with the regulations for the reason(s) indicated below.

The required item(s) identified below must be timely submitted to avoid abandonment:

- Substitute drawings in compliance with 37 CFR 1.84 because:

- drawing sheets do not have the appropriate margin(s) (see 37 CFR 1.84(g)). Each sheet must include a top margin of at least 2.5 cm. (1 inch), a left side margin of at least 2.5 cm. (1 inch), a right side margin of at least 1.5 cm. (5/8 inch), and a bottom margin of at least 1.0 cm. (3/8 inch);

03/14/2002 NMARZI1 0000006 501673 10038783

01 FC:105

130.00 CH

*A copy of this notice **MUST** be returned with the reply.*

*Haimanot Teghanu*

Express Mail: EV067266257US

Customer Service Center  
Initial Patent Examination Division (703) 308-1202  
PART 1 - ATTORNEY/APPLICANT COPY

100362302020

Express Mail: EV067266257US



07-08-02

Receipt  
BXPATENT APPLICATION  
DOCKET NUMBER 069092.0128

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:  
**Bhashyam Ramesh**

Serial No.: **10/038,783**Filing Date: **December 31, 2001**Title: **"Optimizing an Exclusion Join  
Operation Using A Bitmap  
Index Structure"**

Group Art Unit: 2122

Examiner:

NCR Docket No.: **10239**Commissioner for Patents  
Washington, D.C. 20231

## CERTIFICATE OF MAILING BY EXPRESS MAIL

I hereby certify that this correspondence is being deposited with the United States Postal Service as Express Mail in an envelope addressed to: Assistant Commissioner for Patents, Box Missing Parts, Washington, D.C. 20231 on March 7, 2002.

Signature

Express Mail Label: EV067266257US

REQUEST FOR CORRECTED FILING RECEIPT

Dear Sir:

A corrected filing receipt is hereby requested in view of the error which appears in the original filing receipt. For the convenience of the Patent and Trademark Office, attached is a photocopy of the original filing receipt on which the error has been noted in red.

There is an error with respect to the following data, which is incorrectly entered:

The error is in the inventor's name. The correct inventor's name is "Bhashyam Ramesh."

HOU03:832979.1

Request for Corrected Filing Receipt  
Express Mail Label No.: EV067266257US

No fee is believed to be due in connection with the filing of this document. However, should any fees under 37 C.F.R. §§ 1.16 to 1.21 be deemed necessary for any reason relating to this document, the Assistant Commissioner is hereby authorized to deduct the fee from Baker Botts, L.L.P. Deposit Account 02-0383.

Respectfully submitted,



Howard L. Speight  
Reg. No. 37,733

Baker Botts, L.L.P.  
One Shell Plaza  
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(713) 229-1992

March 7, 2002



UNITED STATES PATENT AND TRADEMARK OFFICE



COMMISSIONER FOR PATENTS  
UNITED STATES PATENT AND TRADEMARK OFFICE  
WASHINGTON, D.C. 20231  
[www.uspto.gov](http://www.uspto.gov)

APPLICATION NUMBER	FILING DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	DRAWINGS	TOT CLAIMS	IND CLAIMS
10/038,783	12/31/2001	2122	1304	10239	8	42	5

CONFIRMATION NO. 4098

RECEIVED

FILING RECEIPT



\*OC00000007421615\*

John D. Cowart  
Teradata Law IP, WHQ-4W  
NCR Corporation  
1700 S. Patterson Blvd.  
Dayton, OH 45479-0001

FEB 13 2002

LAW DEPARTMENT

Date Mailed: 02/05/2002

Receipt is acknowledged of this nonprovisional Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Customer Service Center. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

Applicant(s) *Bhashyam Ramesh*  
Ramesh Bhashyam, San Diego, CA;

Domestic Priority data as claimed by applicant

Foreign Applications

If Required, Foreign Filing License Granted 02/05/2002

Projected Publication Date: Request for Non-Publication Acknowledged

Non-Publication Request: Yes

Early Publication Request: No

Title

Optimizing an exclusion join operation using a bitmap index structure

Preliminary Class

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